

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/005504

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C07D211/26, 211/52, 211/28, 211/70, 307/68, 295/12, 215/50,
213/60, 207/20, 409/06, 401/10, 405/10, 405/06, 409/10, 333/28,
A61K31/451, 31/454, 31/44, 31/381, 31/341, 31/495, 31/496,

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C07D211/26, 211/52, 211/28, 211/70, 307/68, 295/12, 215/50,
213/60, 207/20, 409/06, 401/10, 405/10, 405/06, 409/10, 333/28,
A61K31/451, 31/454, 31/44, 31/381, 31/341, 31/495, 31/496,

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
CAPLUS (STN), REGISTRY (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E, X	WO 04/52845 A1 (BAYER HEALTHCARE AG.), 24 June, 2004 (24.06.04), Full text (Family: none)	1-9
P, X	WO 04/14864 A1 (ASTEX TECHNOLOGY LTD.), 19 February, 2004 (19.02.04); Full text (Family: none)	1-9
P, X	WO 03/91256 A1 (Shionogi & Co., Ltd.), 06 November, 2003 (06.11.03), Full text (Family: none)	1-9

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier application or patent but published on or after the international filing date
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
 "&" document member of the same patent family

Date of the actual completion of the international search
20 July, 2004 (20.07.04)

Date of mailing of the international search report
03 August, 2004 (03.08.04)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 03/53912 A1 (BRISTOL-MYER SQUIBB CO.), 03 July, 2003 (03.07.03), Full text (Family: none)	1-9
P, X	WO 03/33483 A1 (GLAXO GROUP LTD.), 24 April, 2003 (24.04.03), Full text & EP 1436272 A1	1-9
P, X	WO 03/32980 A1 (GLAXO GROUP LTD.), 24 April, 2003 (24.04.03), Full text & EP 1435942 A1	1-9
A	WO 02/05819 A1 (SMITHKLINE BEECHAM CORP.), 24 January, 2002 (24.01.02), Claims & EP 1313477 A1	1-14, 16, 17
A	JP 2002-535256 A (SMITHKLINE BEECHAM CORP.), 22 October, 2002 (22.10.02), Claims & WO 00/42852 A1 & EP 1146790 A1	1-14, 16, 17
X	JP 10-306078 A (Mitsubishi Chemical Corp.), 17 November, 1998 (17.11.98), Full text (Family: none)	1-12, 16
A	WO 98/25617 A1 (MERCK & CO., INC.), 18 June, 1998 (18.06.98), Claims & AU 9855224 A1	1-14, 16, 17
X	JP 7-258217 A (Adir et Co.), 09 October, 1995 (09.10.95), Full text & EP 669322 A1 & CA 2143249 A & SU 5565457 A & CN 1120537 A	1-9
X	JP 3-275657 A (Kaneka Corp.), 06 December, 1991 (06.12.91), Full text & EP 407200 A1 & CA 2020437 A & US 5294643 A	1-12, 16
X	WO 01/77101 A1 (ASTRAZENECA AB), 18 October, 2001 (18.10.01), Claims & EP 1274701 A1 & JP 15-530393 A & CA 2403012 A & US 2002/77337 A1	1-14, 16, 17

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/81449 A1 (NOVARTIS-ERFINDUNGEN VERWAL TUNGS G.M.B.H.), 17 October, 2002 (17.10.02), Claims & CA 2439241 A	1-14, 16, 17
X	WO 00/66558 A1 (SCHERING CORP.), 09 November, 2000 (09.11.00), Claims & EP 1175401 A1 & JP 14-543185 A & US 2003/69252 A1	1-14, 16, 17
X	WO 00/66141 A1 (SCHERING CORP.), 09 November, 2000 (09.11.00), Claims & EP 1175224 A1 & JP 14-543144 A	1-14, 16, 17
X	WO 00/66559 A1 (SCHERING CORP.), 09 November, 2000 (09.11.00), Claims & EP 1175402 A1 & JP 14-543186 A	1-14, 16, 17

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material

☒

a sequence listing

☐

table(s) related to the sequence listing

b. format of material

☐

in written format

☒

in computer readable form

c. time of filing/furnishing

☐

contained in the international application as filed

☒

filed together with the international application in computer readable form

☐

furnished subsequently to this Authority for the purposes of search

2. ☒ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claim No.: 15
because they relate to subject matter not required to be searched by this Authority, namely:
The invention relates to methods for treatment of a human body by therapy.
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

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Continuation of A. CLASSIFICATION OF SUBJECT MATTER
(International Patent Classification (IPC))

Int.Cl⁷ 31/40, 31/4709, 31/4525, 31/453, 31/45, 31/4535, 31/454,
31/4545, 31/455, A61P43/00, 29/00, 37/06, 37/08, 31/04, 31/18,
11/06, 13/12, 11/02, 1/16, 19/02, 27/02, 1/04, 17/00, 25/00,
9/10, 11/00, 3/10, 35/04

(According to International Patent Classification (IPC) or to both national
classification and IPC)

Continuation of B. FIELDS SEARCHED

Minimum documentation searched (International Patent Classification (IPC))

Int.Cl⁷ 31/40, 31/4709, 31/4525, 31/453, 31/45, 31/4535, 31/454,
31/4545, 31/455

Minimum documentation searched (classification system followed by
classification symbols)

<Subject of search>

Although the general formula (I) shown in the claims of this application
comprehends a vast plurality of compounds, only some thereof are disclosed
in the description within the meaning of PCT Article 5.

Consequently, claims 1-14, 16 and 17 of this application lack
satisfactory support within the meaning of PCT Article 6.

Therefore, the subject of the international search on this application
has been limited to rational scope based on particular compounds found
as being disclosed in the description.